

# NGS DNA sample specifications

	Library Type	Sample Type	Input	Volume	Amount
	TruSeq DNA Nano	gDNA (double-stranded)	$OD_{260/280} \geq 1,8$ <u>concentration <math>\geq 20\text{ng}/\mu\text{l} \leq 200\text{ng}/\mu\text{l}</math></u> (based on Qubit)	in $\geq 15\mu\text{l}$ TE-Buffer (max. $50\mu\text{l}$ )	at least 300ng in $15\mu\text{l}$
	TruSeq DNA PCR-free	gDNA (double-stranded)	$OD_{260/280} \geq 1,8$ <u>concentration <math>\geq 60\text{ng}/\mu\text{l} \leq 200\text{ng}/\mu\text{l}</math></u> (based on Qubit)	in $\geq 20\mu\text{l}$ TE-Buffer (max. $55\mu\text{l}$ )	at least 1200ng in $20\mu\text{l}$
	Nextera Rapid Capture Exome	gDNA (double-stranded)	$OD_{260/280} \geq 1,8$ <u>concentration <math>\geq 4\text{ng}/\mu\text{l} \leq 200\text{ng}/\mu\text{l}</math></u> (based on Qubit)	in $\geq 15\mu\text{l}$ TE-Buffer (max. $30\mu\text{l}$ )	at least 60ng in $15\mu\text{l}$
	Nextera	gDNA (double-stranded)	$OD_{260/280} \geq 1,8$ <u>concentration <math>\geq 4\text{ng}/\mu\text{l} \leq 200\text{ng}/\mu\text{l}</math></u> (based on Qubit)	in $\geq 15\mu\text{l}$ TE-Buffer (max. $30\mu\text{l}$ )	at least 60ng in $15\mu\text{l}$
	Nextera XT	gDNA (double-stranded)	$OD_{260/280} \geq 1,8$ <u>concentration <math>\geq 0,5\text{ng}/\mu\text{l} \leq 200\text{ng}/\mu\text{l}</math></u> (based on Qubit)	in $\geq 10\mu\text{l}$ TE-Buffer (max. $25\mu\text{l}$ )	at least 5ng in $10\mu\text{l}$
	RRBS	gDNA (double-stranded)	$OD_{260/280} \geq 1,8$ <u>concentration <math>\geq 12\text{ng}/\mu\text{l} \leq 200\text{ng}/\mu\text{l}</math></u> (based on Qubit)	in $\geq 10\mu\text{l}$ TE-Buffer (max. $25\mu\text{l}$ )	at least 120ng in $10\mu\text{l}$
	ready-to-sequence libraries (P5-/P7-ligated Adapters)	-	<u>concentration <math>\geq 10\text{ng}/\mu\text{l} \leq 200\text{ng}/\mu\text{l}</math></u> (based on Qubit)	in $\geq 15\mu\text{l}$ TE-Buffer	

# NGS RNA sample specifications

	Library Type	Sample Type	Input	Volume	Amount
RNA libraries	TruSeq RNA	total RNA	DNA free pure (OD <sub>260/280</sub> ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 <b><u>concentration ≥ 60ng/μl ≤ 200ng/μl</u></b> (based on Qubit)	in ≥ 20μl TE-Buffer (max. 50μl)	at least 1200ng in 20μl
		purified mRNA	DNA free pure (OD <sub>260/280</sub> ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 <b><u>concentration ≥ 5ng/μl ≤ 100ng/μl</u></b> (based on Qubit)	in ≥ 10μl TE-Buffer (max. 20μl)	at least 50ng in 10μl
	TruSeq stranded RNA	total RNA	DNA free pure (OD <sub>260/280</sub> ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 <b><u>concentration ≥ 40ng/μl ≤ 200ng/μl</u></b> (based on Qubit)	in ≥ 15μl TE-Buffer (max. 30μl)	at least 600ng in 15μl
		mRNA	DNA free pure (OD <sub>260/280</sub> ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 <b><u>concentration ≥ 40ng/μl ≤ 200ng/μl</u></b> (based on Qubit)	in ≥ 15μl TE-Buffer (max. 50μl)	at least 600ng in 15μl
	TruSeq smallRNA	total RNA	DNA free pure (OD <sub>260/280</sub> ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 <b><u>concentration ≥ 200ng/μl</u></b> (based on Qubit)	in 10μl TE-Buffer	
		micro RNA	DNA free pure (OD <sub>260/280</sub> ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 <b><u>Amount ≥ micro RNA fraction of ≥ 1,2μl total RNA</u></b> (based on Qubit)	in 15μl TE-Buffer	